

Method and apparatus for controlling transmissions of a communications system

Publication number: TW512602B

Publication date: 2002-12-01

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Classification:

- international: H04J1/05; H04B1/707; H04B7/005; H04B7/26; H04J3/00; H04J11/00; H04Q7/36; H04Q7/38; H04J1/00; H04B1/707; H04B7/005; H04B7/26; H04J3/00; H04J11/00; H04Q7/36; H04Q7/38; (IPC1-7): H04B7/005

- european: H04B7/005B3M2

Application number: TW20010107600 20010514

Priority number(s): US20000539157 20000330

Also published as:



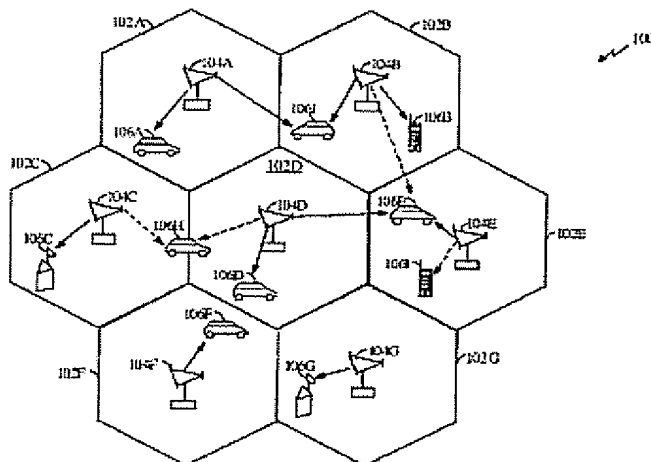
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EP1269654 (A0)

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Abstract of TW512602B

In some aspects, each cell in the communications system can be designed to operate in accordance with a set of back-off factors that identify the reductions in peak transmit power levels for the channels associated with the back-off factors. The back-off factors are defined to provide the required power to a large percentage of the users while reducing the amount of interference. In some other aspects, the cells operate using an adaptive reuse scheme that allows the cells to efficiently allocate and reallocate the system resources to reflect changes in the system. A reuse scheme is initially defined and resources are allocated to the cells. During operation, changes in the operating conditions of the system are detected and the reuse scheme is redefined as necessary based on the detected changes. For example, the loading conditions of the cells can be detected, and the resources can be reallocated and/or the reuse scheme can be redefined. In yet other aspects, techniques are provided to efficiently schedule data transmissions and to assign channels to users. Data transmissions can be scheduled based on user priorities, some fairness criteria, system requirements, and other factors. Users are assigned to available channels based on a number of channel assignment schemes. Channel metrics are also provided, which can be used to prioritize users and for channel assignments.



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